

- 208** Impaired endothelium-derived hyperpolarizing factor-mediated relaxation in porcine pulmonary microarteries after cold storage with Euro-Collins and University of Wisconsin solutions

W. Zou, Q. Yang, A. P. C. Yim, and G.-W. He

- 216** Regulated interleukin-10 expression prevents chronic rejection of transplanted hearts

M. P. Fischbein, J. Yun, H. Laks, Y. Irie, L. Oslund-Pinderski, M. C. Fishbein, B. Bonavida, and A. Ardehali

- 224** Long-term results of heart transplantation in patients older than 60 years

P. Demers, S. Moffatt, P. E. Oyer, S. A. Hunt, B. A. Reitz, and R. C. Robbins

Surgery for Congenital Heart Disease (CHD)

- 232** Human leukocyte antigen-DR and ABO mismatch are associated with accelerated homograft valve failure in children: Implications for therapeutic interventions

R. J. F. Baskett, M. A. Nanton, A. E. Warren, and D. B. Ross

- 240** Comparison of autograft and allograft aortic valve replacement in children

F. M. Lupinetti, B. W. Duncan, M. Lewin, U. Dyamenahalli, and G. L. Rosenthal

- 247** Immunogenicity of decellularized cryopreserved allografts in pediatric cardiac surgery: Comparison with standard cryopreserved allografts

J. A. Hawkins, N. D. Hillman, L. M. Lambert, J. Jones, G. B. Di Russo, T. Profaizer, T. C. Fuller, L. L. Minich, R. V. Williams, and R. E. Shaddy

- 254** Incisional atrial reentrant tachycardia: Experimental study on the conduction property through the isthmus

Y. Ishii, T. Nitta, S.-i. Sakamoto, S. Tanaka, and G. Asano

- 263** Postnatal increase in insulin-sensitive glucose transporter expression is associated with improved recovery of postischemic myocardial function

I. Friehs, H. Cao-Danh, C. Stamm, D. B. Cowan, F. X. McGowan, and P. J. del Nido

- 272** Clinical outcomes and utility of cardiac catheterization prior to superior cavopulmonary anastomosis

D. W. Brown, K. Gauvreau, A. M. Moran, K. J. Jenkins, S. B. Perry, P. J. del Nido, and S. D. Colan

Brief Communications

- 282** Valve-sparing aortic root reconstruction with a valveless aortic allograft

P. H. Schoof, A. T. J. Tjien, J. Lam, I. Kuipers, J. Ottenkamp, M. Hazekamp, and R. Dion

- 284** Restrictive mitral annuloplasty in refractory cardiogenic shock with acute postinfarction mitral insufficiency and intact papillary muscle

J. Braun, P. G. Voigt, M. I. M. Versteegh, and R. A. E. Dion

- 287** A self-retaining retractor for the maze procedure

A. M. Gillinov

- 288** Clopidogrel before urgent coronary artery bypass graft

M. Genoni, R. Tavakoli, C. Hofer, O. Bertel, and M. Turina

- 290** Intentional delay of surgery for acute type A dissection with stroke

I. Fukuda and T. Imazuru

- 292** Robot-assisted lobectomy

R. C. Ashton, Jr, C. P. Connery, D. G. Swistel, and J. J. DeRose, Jr

- 293** Transcardiac gunshot wound recognized forty-eight years later

J. B. McClurken, W. J. Hammer, and B. J. Lin

- 295** Bilateral lung transplantation for pulmonary hypoplasia caused by congenital diaphragmatic hernia

R. Lee, E. N. Mendeloff, C. Huddleston, S. C. Sweet, and M. de la Morena

- 298** Use of autologous pleural flap buttress in thoracoscopic lung volume reduction surgery

Y.-C. Lee, Y.-L. Chang, C.-W. Chen, N.-C. Chien, and P.-M. Huang

- 300** New lead for in utero pacing for fetal congenital heart block

R. S. Assad, P. Zielinsky, R. Kalil, G. Lima, A. Aramayo, A. Santos, R. Costa, M. B. Marcial, and S. A. Oliveira

- 303 **Letters to the Editor**
- 306 **Events of Interest**
- 308 **Announcements**
- 25A **Reader Services**
- 34A **Copyright Transmittal Form**
- 253 **Change of Address**

Full-text online access to *The Journal of Thoracic and Cardiovascular Surgery* is now available for all print subscribers. See page 89 for details.

The Journal of Thoracic and Cardiovascular Surgery online is sponsored by St. Jude Medical.

Cover Photograph

Incisional atrial reentrant tachycardia (IART) is a life-threatening tachyarrhythmia that occurs after surgery for congenital heart disease. Slow conduction through an isthmus between the right atriotomy and the sites for cannulation precipitates the occurrence of the IART. To mimic the anatomic conditions of IART, 2 tandem incisions were made on the right atrium. Activation maps of the lateral right atrium through a 12-mm wide isthmus (*left*, Figure 3, A) and a 3-mm wide isthmus (*right*, Figure 4, A) are shown.¹ The *arrows* represent the activation sequence. The crowded isochrones at the 12-mm wide isthmus suggest the presence of slow conduction. The decremental conduction through the isthmus, which is determined by the width of isthmus, is

involved in sustaining IART. While the activation through the extremely narrow isthmi less than 5 mm is completely blocked, the activation penetrates the critical isthmi between 5 and 15 mm with slow conduction. SVC, Superior vena cava; IVC, inferior vena cava; RAA, right atrial appendage.

Yosuke Ishii, MD

Reference

1. Ishii Y, Nitta T, Sakamoto S, Tanaka S, Asano G. Incisional atrial reentrant tachycardia: experimental study on the conduction property through the isthmus. *J Thorac Cardiovasc Surg.* 2003;126:254-62.